CENTER FOR DISEASE CONTROL

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International Notes

Health Status of Kampuchean Refugees - Khao I-Dang

On November 19, 1979, the holding camp at Khao I-Dang, which is capable of accomodating 200,000 refugees, was established by the Thai Government in cooperation with the United Nations High Commission for Refugees (UNHCR). Two days later, trucks and buses from the UNHCR and the International Committee of the Red Cross (ICRC) delivered the first Khmers from border villages to the new camp, located 30 kilometers north of Aranyaprathet. The population, which has grown by 2,000-8,000 each day, was 38,000, as of December 2.

To assess the health problems of the incoming population, the epidemiology unit of the ICRC, with the cooperation of voluntary relief agencies, organized a mass screening program. Basic demographic data are being collected from all new arrivals to the camp. Malnourished and otherwise severely ill refugees are referred directly to the camp's field hospital, which initially will have 2,000 beds. A register of births, deaths, and causes of admission has been established in the hospital. A representative sample of young children are weighed and measured. Pregnant women are registered with a midwife and immediately begun on a prenatal-care program. Thick smears for malaria were obtained on a representative sample of the population to assess the need for mass treatment suggested by the clinical experience and the survey conducted in the older camp in Sakaeo* (1).

The age structure of the Khmer population arriving in Khao I-Dang approximates that of a developing country: 44% are younger than 15 years of age, 15% are under 5 Years. Five percent of the 163 children weighed and measured were below 80% of the median weight-for-height (Harvard Standard) indicative of undernutrition. Of 100 blood smears stained for malaria, 4 were positive for Plasmodium vivax. Treatment of new arrivals with pyrimethamine-sulfadoxine (Fansidar†) was discontinued, and the hospital has changed its drug therapy for malaria.

During the first 8 days of the camp's operation, approximately 1% of the arriving refugees required hospitalization—a rate one-fourth of that originally seen at Sakaeo. Major reasons for admission were pneumonia, diarrhea/dehydration, and malnutrition. Twenty-six deaths occurred during this period, including 8 associated with pneumonia, ⁵ with diarrhea/dehydration, 2 with malnutrition, and 2 with premature birth. There were no malaria-associated deaths. To date, there have been no deaths outside of the hospital, suggesting that the severely ill are being appropriately treated.

Reported by JP Hiagle, MD, Assistant Medical Coordinator, ICRC; M Grabe, MD, ICRC Medical Coordinator, Khao I-Dang, R Williams, MD, Armed Forces Research Institute of Medical Sciences, Bangkok; and the Bur of Epidemiology, CDC.

Sa-Kaeo is also an acceptable spelling.

the lusion of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health, Education, and Welfare.

Health Status of Refugees - Continued

Editorial Note: This first group of Khmers to arrive at Khao I-Dang is from the border population, which numbers more than 300,000; more refugees are expected to follow. The first arrivals represent a selection, but one of unknown bias. For example, sick people are reported to be the first to be leaving, while many healthy adults of military age are remaining behind. The Khmers who have arrived thus far not only are from a different political group (Khmer-Serei or Free Khmer) than those in Sakaeo (Khmer Rouge), but also are better nourished, have a lower incidence of malaria and malnutrition, and have lower death rates and hospitalization than those at Sakaeo.

Planning for health care in a large refugee population requires a surveillance network capable of rapidly and systematically collecting, analyzing, and interpreting health data. Once the prevalence and type of malaria at Khao I-Dang were identified, the mass treatment program could be immediately discontinued and in-patient treatment altered to deal with *P. vivax* malaria. Knowledge of rates of hospitalization, pregnancy, and undernutrition will allow improved planning for the health-care services which will be required. Monitoring causes of hospitalizations will help with the early identification of outbreaks of disease (1).

Reference

1. MMWR 28:545-546, 1979

Surveillance Summary

Malaria — United States, 1978

In 1978, malaria in civilians continued its upward trend. The number of infected civilians was 616, a 67% increase over 1977 and a 4-fold increase over 1970. This total reflects the worldwide resurgence of malaria, the increased travel to malarious areas, and the increasing number of immigrants from malarious areas, particularly from the Indian subcontinent.

Of last year's 616 malaria cases with onset in the United States and Puerto Rico, 95% occurred in U.S. and foreign civilians (Table 1). Most of the 270 cases among U.S. civilians occurred in tourists, students or teachers, business people, and missionaries. Thirty-one cases occurred among military personnel.

Of the countries where the 616 patients contracted malaria, Asia accounted for 52.1% of the cases (India, alone, for 39%), Africa for 28.9%, Central America and the Caribbean for 12.0%, South America for 2.2%, Oceania for 1.8%, and North America for 3.0%.

After India (where 241 cases were acquired), the largest number of imported cases were acquired in Nigeria (47), the Philippines (24), Kenya (17), and El Salvador (16).

TABLE 1. Malaria cases, by category, 1969-1978

Category					Ye	ar			
	1969	1970	1971	1972	1973	1974	1975	1976	1977
Military	3,914	4,096	2,975	454	41	21	17	5	11
Civilian	139	134	148	160	181	302	431	405	470
U.S.	90	90	79	106	103	158	199	178	233
Foreign	49	44	69	54	78	144	232	227	237

Malaria - Continued

Six deaths attributed to malaria were reported, compared with 3 in 1977. Four of the deaths occurred in civilians who had traveled to Africa, 1 in a seaman who was infected in Brazil, and 1 in a civilian who received a transfusion in Mexico. The latter case was caused by *Plasmodium malariae*, the rest, by *P. falciparum*. The *P. falciparum* malaria case-fatality ratio of 4% was higher than the ratio of 1.6% for the 10-year period 1966-1975

The states with the largest number of imported malaria cases in 1978 were California (222), Virginia (37), Pennsylvania (28), and Texas (27).

In 1978, as in 1977, the seasonal distribution of malaria cases showed a distinct pattern: a definite peak in cases* was apparent in the late spring and in the summer months. For cases in which the exact date of arrival and date of onset were available, clinical malaria developed within 30 days after arrival into the United States in 79.5% of persons with *P. falciparum* infection and in 30.9% of those with *P. vivax* infection; these figures are consistent with those of previous years. Within 6 months after returning to this country, 96.2% of patients with *P. falciparum* malaria and 70.2% of those with *P. vivax* malaria developed clinical symptoms. Twenty-one patients (4.1%) became ill with malaria 12 months or longer after their last possible exposure to malaria abroad.

An increase in imported malaria cases is being reported in Western Europe as well as the United States (1.2).

Reported by the Parasitic Diseases Div, Bur of Epidemiology, CDC. References

 Hatz B, Stahel E, Weiss N, Begremont A: La malaria importée en Suisse de 1974-1976. Schweiz Med Wochenschr 108:1495-1499, 1978

 World Health Organization: Malaria surveillance. Weekly Epidemiological Record 54:223-225, 1979

ACCOPY of this report from which these data were derived will be available on request from CDC, Attn: Malaria Surveillance, Parasitic Diseases Div, Bur of Epidemiology, Atlanta, Ga. 30333.

Epidemiologic Notes and Reports

Non-01 Vibrio cholerae Infections — Florida

Since November 8, 1979, non-01 Vibrio cholerae organisms have been isolated from the stools of 3 persons who presented to a single hospital in northern Florida. Raw oysters harvested from or near Oyster Bay, Wakulla County, Florida, have been epidemiologically incriminated as the vehicle of transmission.

The first patient, a 24-year-old woman, became ill with nausea, vomiting, abdominal cramps, and bloody diarrhea on November 8, 30 hours after consuming raw oysters harvested at Mashes Sand near Oyster Bay. She was admitted to the hospital on November 9, was treated with intravenous fluids, and recovered.

On November 12, a 25-year-old man developed watery diarrhea, vomiting, and abdominal cramps 15 hours after he had eaten raw oysters harvested at Purify Creek on Oyster Bay. He was seen in the hospital emergency room, but he was not clinically dehydrated and was discharged after receiving symptomatic therapy.

^{*}excluding cases with unknown date of onset.

Vibrio cholerae - Continued

The third patient, a 23-year-old man, became ill with nausea, vomiting, abdominal cramps, and bloody diarrhea on November 18, 12 hours after consuming raw oysters obtained from a supplier in Wakulla County. These oysters were thought to have been harvested from Oyster Bay. He was admitted to the hospital on November 18. He was mildly dehydrated and was discharged after 24 hours of intravenous fluid therapy.

The raw oysters were consumed by these 3 patients at family and social gatherings. Another 8 persons were identified who had onset of diarrheal illness within 48 hours after eating raw oysters at these occasions.

Investigation of 11 adult control patients with diarrhea, admitted to the same hospital during November 8-24, but with stool cultures negative for *V. cholerae* non-01, revealed that none had consumed raw oysters within 48 hours prior to admission (p<.01). Water and oyster samples collected from the areas where oysters were harvested by the first 2 patients had elevated fecal coliform counts. These areas have been temporarily closed to oyster harvesting by state regulatory authorities, and the open and closed areas in and around Oyster Bay are being monitored for fecal coliform bacteria twice a week.

Reported by C Lewis, J Harris, MD, Tallahassee Regional Medical Center, Tallahassee; K Hausfeld, MD, Health Unit Director, Leon and Wakulla Counties, EC Prather, MD, Health Program Supervisor, District II, AE Roberts, Tallahassee Branch Laboratory, RA Gunn, MD, State Epidemiologist, H Janowoski, S Lieb, Florida Dept of Health and Rehabilitative Services; E Gissendanner, DVM, Florida Dept of Natural Resources; U.S. Food and Drug Administration; Enteric Section, Enterobacteriology Br, Bacteriology Div, Bur of Laboratories, Epidemiologic Investigations Laboratory Br, Enteric Diseases Br, Bacterial Diseases Div, and Field Services Div, Bur of Epidemiology, CDC.

(Continued on page 577)

TABLE I. Summary — cases of specified notifiable diseases, United States [Cumulative totals include revised and delayed reports through previous weeks.]

	48th WE	EK ENDING		CUMU	LATIVE, FIRST 4	WEEKS
DISEASE	December 1, 1979	December 2, 1978*	MEDIAN 1974-1978**	December 1, 1979	December 2, 1978*	MEDIAN 1974-1978**
Aseptic meningitis	186	140	79	7,712	6,074	3,855
Brucallosis	8	1	4	152	156	210
Chickenpox	2,563	2.498	2,293	182,796	137,218	137,218
Diphtheria		6	1	65	71	137
ncephalitis: Primary (arthropod-borne & unspec.)	19	18	20	969	1,113	1,113
Post-infectious	a	2	4	211	217	234
lepatitis, Viral: Type B	300	320	271	13,490	13,777	13,746
Type A	549	625	625	26,919	26,984	30,648
Type unspecified	221	259	152	9,931	7.879	7,612
lalaria	27	8	8	707	691	421
Aeasles (rubeola)	109	267	237	12,997	25,859	25,859
Meningococcal infections: Total	50	45	31	2,328	2,231	1,416
Civilian	49	45	31	2,315	2,204	1,397
Military	1	-	-	13	27	27
Aumps	234	288	462	12,834	15.315	36,149
ertussis	23	34	34	1,238	1.933	1,608
Rubella (German meesles)	89	89	109	11,287	17,752	15,770
Tetanus	1	2	2	66	75	76
uberculosis	616	688	579	25.607	26.803	28,077
fularemia	3	4	1	186	124	128
Typhoid fever	15	10	6	472	490	380
Typhus fever, tick-borne (Rky. Mt. spotted)	11	6	5	1,028	1.029	873
/enereal diseases:						
Gonorrhea: Civilian	18,886	21,857	20.172	922,614	935.575	930,856
Military	393	437	476	25,295	23,933	24,663
Syphilis, primary & secondary: Civilian	575	464	464	23,036	19,982	19,982
Military	5	10	10	291	282	289
Pabies in animals	72	77	42	4,596	2,957	2,737

TABLE II. Notifiable diseases of low frequency, United States

	CUM. 1979		CUM. 1979
Anthrax		Poliomyelitis: Total	25
Botulism (Wash. 1)	29	Paralytic	22
Cholera 1	2	Psittacosis (N.C. 1)	91
Congenital rubella syndrome	41	Rabies in man	3
Leprosy (N.C. 1, Calif. 2)	157	Trichinosis †	130
Leptospirosis (NYC 1, N.C. 1, Hawaii 3)	48	Typhus fever, flea-borne (endemic, murine) (Texas 2)	55
Plague	10		

^{*}Delayed reports received for calendar year 1978 are used to update last year's weekly and cumulative totals.

^{*}Medians for gonorrhea and syphilis are based on data for 1976-1978.

[†]The following delayed reports will be reflected in next week's cumulative totals: Cholera: Kans. -1; Trichinosis: Va. -1

TABLE III. Cases of specified notifiable diseases, United States, weeks ending December 1 1979 and December 2 1978 (48th week)

	ASEPTIC			VEN.		ENCEPHALITIS			HEPATITIS (VIRAL), BY TYPE				
REPORTING AREA	MENIN- GITIS	BRU- CEL- Losis	POX POX	DIPHT	HERIA	Pr	imary	Past-in- fectious	В	A	Unspecified	MAL	ARIA
	1979	1979	1979	1979	CUM. 1979	1979	1978*	1979	1979	1979	1979	1979	CUM 1979
UNITED STATES	186	8	2,563	-	65	19	18	8	300	549	221	27	70
NEW ENGLAND	6	1	200	_	-	1	-	_	9	8	8	1	4
mainet	1	_	104	-	-	-	-	-	1	2	1	-	
N.H.† VŁ	1	-	20	-	-	-	-	-	-	-	1	-	
Mass.	-		15	-	-	1	-	-		HO	-	-	
R.I.	2	1	(*)	_		= :	=	_ =	1	3	3	- 7	L
Conn.	2	-	60	=	= 1	=	_		7	2 1	3	-	1
MID. ATLANTIC	25	1	167	_	Ξ	1	1	= =	31	39	29	1	9
Upstate N.Y. N.Y. City	11	_	46	-		-	1		5	13	13	1	1
4.4.1	5	1	22	-	-	-	-	-	7	8	6	-	- 4
Pa.†	5		NN 99	=		ī	Ξ	_ =	19 NA	18 NA	10 NA	-	1 2
E.N. CENTRAL	20		1,155	_	2	3	4		23	57	16		4
UNIO T	-		134	-	-	2	2	_	6	21	-		i
Ind.†	_	_	257	_	1	-	2	_	7	5	8	_	•
III.	7	_	253	-	-	-	=	_	3	13	ĭ	-	2
Wis.	6	-	355	-	-	1	-	-	6	14	6	-	1
	7	-	156	-	1	-	-	-	1	4	1	-	
W.N. CENTRAL	7	1	359	-	1	4	5	-	7	29	6	1	3
lowa †	-	-	1	-	-	-	-	-	3	12		-	1
Mo	3	-	228	_		4	5		1	4	5	-	
N. Dak +	2	_	2		1	-	-	20	2	7	•	-	
	_	1	6	<u> </u>	-		- 2	- 2	_	2	_	_	
Webr.	1	_	-	-	-	-	-	-	-		-	-	
Kans.	î	-	122	2	-	<u>-</u>	-	-	1	4	1	1	
S. ATLANTIC Del.	19	1	372	2	1	2	3	5	78	108	24	7	8
Md.	-	-	32		-	-	-	-	5	2	2	-	
D.C.	_	-	14	-	-	-	1	-	1	2	1	4	2
Va	-	-	2	-	-	-	-	-	. 4	1	-	-	
W. Va t	4	-	-	-	1	-	1	-	10 5	6	3 1	3	2
PV.C	8	ī	247 NN		=	2	1	2	9	13	3	-	
S.C.	2	-	3	_	-		-	=	á	- 14	ĩ		
Ga. Fla	-	-	-	-	-	-	-	-	16	35	-	=	
	2	_	74	-	-	-	-	3	20	43	13	-	2
E.S. CENTRAL	10	1	5		_	. 1	-	-	14	24	8	-	1
	i	-		_				-	2	-	-	-	
Tenn. Ala.	2	_	NN	_	-	1	-	-	6	4	1	-	- 14
Miss,	3	1	4	-	-	-	-	-	6	9	7	-	
	4	-	1	-	-	-	-	-	-	11	-	-	
W.S. CENTRAL	15	1	65	-	-	1	1	-	28	58	42	3	5
La	-	-	7	-	-	-	-	-	2	7	3	1	
Okla		-	NN	-	-	-	-	-	-11	13	4	-	
Tex.	1	7		-	-	ī	ī	= =	14	31	31	- 2	
	14	1	58	-	-			7.0	17	31	31	2	3
MOUNTAIN	3	-	63	-	1	1	-	-	9	55	31	-	1
Idaha	-	_	10	-	-	ī	2	-	-	2	-	-	
WYO.	-	-	2	-	-	-	-	-	-	3	-	-	
	1	-	-	+	-	-	Ē	-	-	-	-	-	
N. Mex	-	-	48	-	-	-	-	-	4	17	2	-	
	-	-	Albr	=	7	Ξ	-			23	25	2	
Utah	1	-	NN 1	-	1	=		- 2	_	-	4	_	
Nev.	1	_	2	_		20	-	-	1	5	-	-	
PACIFIC		-		-10				-	101	171	57	14	32
	81	2	177	-	60	5	4	3	101	25	57	3	1
Oreg. Calif.†	15 5		167		56	- 51		- 1	6	11	_	1	1
Alaska	53	2	- 2		4	4	4	2	76	132	48	10	28
Hawaji	1		8	Ξ	-	-	-	- 3	2	1	ī	-	
	7	-	2	-	-	1	-	-	3	2		-	
Guam t		***				***			818	hi A		NA	
P.R.	NA 4	NA	NA 13	NA		NA		=	NA 4	NA 2	NA B	NA 1	
V.I. Pac Trust Terr.		-	13		-	_	-	_		_	-	-	
NN: Not a series	NA	NA	NA	NA		NA		_	NA	NA	NA	NA	

NN: Not notifiable. NA: Not available.

Delayed reports received for 1978 are not shown below but are used to update last year's weekly and cumulative totals.

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TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending

DEBODTING ADE:	٠	MEASLES (AL	JBEOLA)	MENIN	GOCOCCAL I	NFECTIONS		MUMPS	PERTUSSIS	RUBELLA		TETANU	
REPORTING AREA	1979	CUM. 1979	CUM. 1978*	1979	CUM. 1979	CUM. 1978*	1979	CUM. 1979	1979	1979	CUM. 1978	CUM. 1979	
UNITED STATES	109	12,997	25,859	50	2,328	2,231	234	12,834	23	89	11,287	66	
NEW ENGLAND	-	292	2,038	3	124	124	14	637	1	2	1,438	5	
Maine		19	1,319	1	9	9	4	252		1	66	1	
N.H.† Vt.		33 119	78 52	_	14	3	_	6	I - I	_	127 407	-	
Vit. Viass.	1	15	253	2	39	48	9	133	1	1	489	3	
R.I.	_	102	8	_	9	18	1	47	-	_	93	-	
Conn.	-	4	328	_	45	37	-	190	-	_	256	1	
MID. ATLANTIC	16	1,555	2,245	9	378	342	29	1,223	2	_	1,993	9	
Upstate N.Y.	3	636	1,421	í	125	107	í	182	ī	_	1,114	2	
N.Y. City	13	814	391	1	85	81	6	143	-	-	276	4	
N.J.†	-	58	74	1	94	73	10	587	-	_	337	1	
Pa.	_	47	359	6	74	81	12	311	1	-	266	2	
E.N. CENTRAL	45	3,383	11,258	- 3	249	326	49	5,320	6	62	2,686	4	
Ohio	-	294	489	2	89	84	13	1.871	3	_	140	3	
nd.†	-	225	215	-	44	52	7	330	2	6	773	-	
II.	44	1,495	1.209		25	97	15	958		55	245	1	
Aich. Vis.	ī	846 523	7,858 1,487	- L	74 17	75 18	12	984	1	1	1,242 286	-	
	•	723	11401	_	.,	10	2		•	•	200		
W.N. CENTRAL	4	1,830	463	1	70	89	5	708	1	3	496	2	
Minn.	-	1,218	42	-	17	25	-	23	-	-	43	-	
lows	Ξ	16	58		13	10	1	239	_	1	53	1	
Mo. N. Dak.		424 21	54 211		29 1	36 3	1	198 2	_	Ξ	69 8	i	
S. Dak.		2	211	_	2	3	_	7	11	_	5	-	
Nebr.	4	74	5	_	_	_	_	7		-	202	-	
Kans.	-	75	93	1	8	12	3	232	1	2	116	-	
S. ATLANTIC	20	2,077	5, 476	18	574	532	29	721	2	5	1,257	12	
Dei.	-	- 21011	7	- 10	3/3	2	- 6	70		-	7	-	
Md.	-	16	52	_	58	38	_	176	-	_	28	1	
D.C.	-	_	48	-	2	2	-	2	_	_	1	2	
Va.†	-	282	2,834		80	66	3	95	-	1	204	- 2	
W. Va. N.C.	1	62 114	1.065	3	13 90	17 102	14	126 85	27	1	110 533	3	
S.C.		182	199	2	63	37		3		ì	66	-	
Ga.	_ 3	570	36	ī	86	64	- 5	í	1	_	14	-	
Fla.†	16	850	1,113	8	179	204	2	157	1	1	294	6	
E.S. CENTRAL	1	24.	1 421	2	147	170	4.0	1 643	ı		308	. 8	
Ky.	-	241 39	1.431	í	167 35	178 31	60 59	1,543 1,291	_	1	71	1	
Tenn.	_	76	962	ī	48	45	í	105	_	1	101	100	
Ala.	-	102	101	_	39	49	_	26		-	44	5 2	
Miss.	-	24	246	-	45	53	-	121	1	_	92	-	
W.S. CENTRAL	5	952	1.272	3	344	300	12	1,446	1	1	265	21	
Ark.		775	16	_	29	23	-	531		_	7	4	
عا	1	257	351	1	121	121	-	36	-	-	30	3 2	
Okla.	-	22	19	_	35	19	-		1	L.	24	12	
Tex.	4	664	886	2	159	137	12	879	-	1	204		
MOUNTAIN	3	334	269	5	98	52	3	321	2	1	545	-	
Mont	-	60	106	ã	14	6	-	13	-	-	71	-	
Idaho	_	18	1	-	10	4	-	9	-	-	206	-	
Wya.		36			1	_	=			Ξ	67	-	
Colo. N. Mex.†		70 39	41	1	8	3 12	3	114	2		11	-	
N. Mex.1 Ariz.	3	80	57	=	36	15	_	62	_	1	146		
Utah		19	44	1	10	- 6	-	96	-		41	-	
Nev.	-	12	20	-	13	6	-	14	-	-	3	7.5	
PACIFIC	16	2 222	1,407	6	324	288	33	915	7	14	2, 299	5	
Wash.	13	2,333 1,153	388	3	60	47	12	238	í	8	201	-	
Oreg.	-	66	405		24	31	5	110		_	112	5	
Calif.	3	1,029	604	3	224	196	16	438	3	6	1,963	2	
Alaska	_	17	1	-	6	10	_	13	3	-	19		
Hawaii	_	68	9	_	10	4		116	-	_	19		
												-	
Guamt	NA	12	26		1	2	NA	11	NA	NA	39	11	
P.R. V.I.†	1	374	288	1	7	10	6	592 20	1		37		
Pac. Trust Terr.	NA	9	645	_	1	3	NA	45	NA	NA	1	-	

NA: Not available.

Delayed reports received for 1978 are not shown below but are used to update last year's weekly and cumulative totals.

1The following delayed reports will be reflected in next week's cumulative totals: Measles: Va. –3, N.Mex. –1, V.I. +1; Men. inf.: Ind. +2, N.Mex. –1, N.I. +1; Tetanus: Fla. +1.

Guam +1; Rubella: N.H. +2, N.J. +1; Tetanus: Fla. +1.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending December 1 1979 and December 2 1978 (48th week)

	TUBER	CULOSIS	TULA-		ного	(Tick	S FEVER			AL DISEASES (C				PABLES (in
REPORTING AREA		3-33-30-110-	REMIA	FE	VER		MSF)		GONORRHEA		SY	PHILIS (Pri.		Animals
	1979	CUM. 1979	CUM. 1979	1979	CUM. 1979	1979	CUM. 1979	1979	CUM. 1979	CUM. 1978*	1979	CUM. 1979	CUM. 1978°	CUM. 1979
INITED STATES	616	25,607	186	15	472	11	1,028	18,886	922,614	935,575	575	23,036	19,982	4,59
NEW ENGLAND	22	755	3	_	*22	_	9	440	22,670	23,806	16	456	538	4
	ī	53	_	_	1	_		27	1,588	1,945	-	10	9	- 2
ν.н.	3	24	_	_		-	_	23	842	1,096	3	21	5	
Vt. †	1	29	-	-	-	_	1	13	595	583	_	2	3	
Mass. R.I.	1	390	3	_	14	-	4	132	8,890	10,488	10	261	328	1
onn.	4	69	_	_	2	_	_	66	1,853	1,768	-	20	24	
	12	190	-	-	5	-	4	179	8,902	7,926	3	142	169	
Jostata N.Y.	100	3,972	1	3	82	-	45	2,549	101,993	101,102	92	3,507	2,694	
* Y City +	5	698	1	1	18	-	28	527	17,863	16,934	. 3	260	193	
N.J. T	54	1,493	=	1	35 17	-	1 5	1,079	40,029	38,213	67 6	2,381	1.871	
Pa.	25 16	761 1,020	_	_	12	_	11	591 352	17,701 26,400	18,785 27,170	16	455 411	302	
E.N. CENTRAL														
OIII0	55	3,791	_		27	- 1	58	2,894	144,376	145,837	32	2,853	2,279	4.
Ind. †	17	681	_	_	3		21	825	39,763	38,012	- 4	564 192	430	
111.	14	477 1,534	=	_	8		2 31	1,000	12,256 45,910	14,596	26	1,615	162	
Mich.	11	916			12	_	31	616	33,826	33,845	20	409	203	
Wis. †	4	183		1	4	_	1	NA NA	12,621	12,921	NÃ	73	62	
W.N. CENTRAL	17	872	27		23	5	59	1,047	46,002	47,175	6	29.2	404	9
milli.	1.6	134	27	1	5	9	29	188	7,543	7,935	4	82	147	
owa	4	65	î		ś	_	14	136	5,452	5,228	1	30	35	
Mo.	5	475	22	_	8	5	30	423	19,977	20,860	1	132	133	2
N. Dak.		21		_	_	_		18	801	812	_	2	3	
S. Dak. Nebr. †	- 5	51	2	_	-	_	_	29	1,488	1,596	-	2	3	
Kans.†	-	22	1	_	1	-	5	117	3,283	3,401	-	7	13	
	3	104		-	4	-	8	136	7,458	7,343	-	37	70	1.
S. ATLANTIC	162	5, 695	12	2	46	3	590	4,588	222,518	226,890	155	5,480	5, 263	6
Md	1	53	-	_	-	-	3	67	3,643	3,219	-	27	13	1
D.C.	-	691	_	1	9	_	75	165	27,097	29,168	35	367	401	
Va	13	268	2		1	-	2	364	14,790	15,359	13	429	396	
W. Va.	18	673	2	-	5	-	90	489	21,385	22,102	19	447	441	
N.C. +	8	220	-	-	5	_	12		3,007	3, 126	2	50		
S.C. +	26	908	1	-	2	2	240		32,503	32,234	5	406	562	
GB.	9	436	1	1	4	1	79 81	312 889	20.752	22,328	6 29	288 1,502	268 1,316	
Flat	40	923 1,523	6	_	2 18	_	91	1,561	41,851 57,490	43,994 55,360	46	1.964	1,836	
ES CENTRAL					22	1	139	1.060	78.095	79,345	10	1,514	1,047	7 3
	27	2,311	14	_	7					10,597	3			
Tenn.	10	589 688	12		3	1	20 77	227 436	10,566 28,363	29,203	4			
Ma	17	556	12	- I	8		20		22,693	22,725	NA.			
Miss.		478	12 -		4	_	22		16,473	16,820	3			
W.S. CENTRAL														
	48	3,080	75	1	76	1	104		118,710	124, 171	93			
La.	9	285	48	-	5		22		9,378	9,149	8			
Oklat	8	604 322	5	-	5	_	62		21,236 11,785	20,325 11,723	17			9 2
'ex.†	31	1,869	14 8	1	66	1			76,311	82,974	67			
MOUNTAIN														
	34	788	44	3	31	-	17		37,180	35,956	39			
daho +	1	35	14	-			5		1,844	2,024 1,494	1	25		8
Wyn +	1	16	1	2	4	2.0	3		1,639	892		25		9
Colo.t		9		_	1	_		28	9,984	9,938	5			
M Mex.1	10	124	12		15		1		4,598	5,194	9			
Utah	19	381	-		3	_		253	10,255	9, 233	22			
Nev. †	3	33	11	1	1		1		1,903	1,938	- 1			
		51	2	-	2	_	3		5,900	5,243	î			
PACIFIC	151	4 242	10	5	143	1	,	2,719	151,070	151,293	132	4,260	4,13	9 3
Wash.†	151	4,343	5	3	8		- 1	2,119 NA	13,214	12,342	NA NA			
Galis	2	178	2		5			207	9,598	10,206	116			
Alaska	121	3.525	3	5	121	1	7		120,648	121,466	126		3, 68	
Hawaii	8	76			2			98	4,658	4,636		25		
	5	293	-	-	7	-		85	2,952	2,643	1			
Guan														
Guam † P.R.	41.4							ALA	94	137	A) 4	. 1		
V.I.	NA	53	-	NΔ	-	NA		NA 47	2,039	2,050	17			
Pac. Trust Terr.	2	273			6				147	192	11			

^{*}Delayed reports received for 1978 are not shown below but are used to update last year's weekly and cumulative totals.

The following delayed reports will be reflected in next week's cumulative totals: TB: Vt. -1, NYC -48, Kans. -3, N.C. -2, S.C. -1, Fla. -3, Wash. -7, Civ., +2, Typhoid fever: N.J. +1, Ind. +1, N.Mex. -1; GC: Wis. +126 civ., Nebr. -1 mil., Idaho -1 civ., Colo., -2 civ., Guam +2 civ. +3 mil., Syphilis: Wis. +2 civ., Taxas. -1 civ., Idaho +1 civ., Nev. -1 civ.; An. rabies: Vt. +1, Okla. -1, Wyo. +11, N.Mex. +6.

TABLE IV. Deaths in 121 U.S. cities,* week ending December 1 1979 (48th week)

		ALL CAUS	SES, BY AG	E (YEARS)				/	ALL CAUS	ES, BY AGE	(YEARS)		
EPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P& I** TOTAL	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P
IEW ENGLAND	743	497	153	44	22	45	S. ATLANTIC	1,232	740	311	101	29	
oston, Mass.	211	128	55	9	10	16	Atlanta, Ga.	118	65	30	16	4	
ridgeport, Conn.	38	23	9	5	1		Baltimore, Md.	177	101	47	19	2	
ambridge, Mass.	26	21	4	1	_	3	Charlotte, N.C.	66	39	13	6	4	
all River, Mass.	24	16	6	i i	_	1	Jacksonville, Fla.	124	75	34	7	2	
ertford, Conn.	57	37	12	4	2	4	Miami, Fla.	140	81	38	13	2	
well, Mass.	15	7	5		1	1	Norfolk, Va.	67	30	24	6	2	
nn, Mass.	27	24	i	1			Richmond, Va.	96	54	27	10	3	
w Bedford, Mass	24	20	4	-	_	1	Savannah, Ga.	27	18	7	2	_	
w Haven, Conn.	72	46	16	4	3	-	St. Petersburg, Fla.	100	83	12	_	1	
ovidence, R.I.	76	51	12	8	. 3	7	Tampa, Fla.	116	82	21	4	4	
merville, Mass.	14	10	3	1		_	Washington, D.C.	162	85	49	16	5	
ringfield, Mass.	65	40	15	3	2	4	Wilmington, Del.	39	27	9	2	_	
aterbury, Conn.	42	32	-4	5	=	5				-	_		
orcester, Mass.	52	42	i	ź	_	á							
	,,,	42	• '	_	_	,	E.S. CENTRAL	805	452	242	57	28	
							Birmingham, Ala.	122	69	37	-6	- 5	
ID. ATLANTIC	2,897	1,906	678	187	62	125	Chattanooga, Tenn.	67	35	22	8	í	
bany, N.Y.	65	46	12			123	Knoxville, Tenn.	54	33	16	3	_	
lentown, Pa.				3	1	_	Louisville, Ky.	112	59	35	7	8	
ffalo, N.Y.	20 103	16 65	29	7	2	6	Memphis, Tenn.	199	126	56	8	8	
mden, N.J.							Mobile, Ala.	38		11	3		
izabeth, N.J.	49	32	10	3	2	1	Montgomery, Ala.	43	24 27	10	3	1	
ie, Pa.†	32	23	8	1	-	2						5	
rsey City, N.J.	31	20	. 7	3	_	2	Nashville, Tenn.	170	79	55	19	,	
awark, N.J.	45	30	13	1									
Y. City, N.Y.	95	52	24	6	5	3				201		50	
	1,607	1,060	365	115	33	65	W.S. CENTRAL	1,309	764	336	106		
terson, N.J. iladelphia, Pa.†	26	18	6	1	1	2	Austin, Tex.	60	41	11	4	1	
	304	187	79	22	9	20	Baton Rouge, La.	49	27	12	7	3	
ttsburgh, Pa. 1	104	64	32	4	2	5	Corpus Christi, Tex.	26	17	6	3		
eading, Pa.	45	39	4	-	2	3	Dallas, Tex.	190	114	50	15	3	
ochester, N.Y.	108	80	20	6	1	5	El Paso, Tex.	54	32	15	2	4	
henectady, N.Y.	32	24	7	1	-	-	Fort Worth, Tax.	74	44	23	-	3	
ranton, Pa.1	28	18	8	1	1	1	Houston, Tex.	192	98	47	25	13	
racusa, N.Y.	93	55	27	7	2	1	Little Rock, Ark.	84	45	28	5	3	
enton, N.J.	49	29	12	5	1	3	New Orleans, La.	181	105	50	15	3	
tica, N.Y.	27	21	5	-	-	3	San Antonio, Tax.	202	115	51	15	10	
onkers, N.Y.	34	27	6	1	-	3	Shreveport, La.	91	64	17	6	3	
							Tulsa, Okla.	106	62	26	9	4	
N. CENTRAL	2,660	1,626	675	151	98	83							
cron, Ohio 🛕	75	50	13	3	5	-	MOUNTAIN	652	398	147	50	30	
nton, Ohio	56	39	12	1	1	2	Albuquerque, N. Mex.	74	49	15	4	1	
ricago, III.	580	325	164	50	18	7	Colo. Springs, Colo.	34	19	8	6		
ncinnati, Ohio	221	138	53	11	10	8	Denver, Colo.	1 36	83	29	10	8	
eveland, Ohio	203	108	59	15	6	1	Las Vegas, Nev.	105	49	34	11	4	
	175	112	40	6	6	4	Ogden, Utah	23	15	3	3	1	
lumbus, Ohio		90	36	12	3	6	Phoenix, Ariz.	114	77	24	6	5	
lumbus, Ohio ryton, Ohio	144					8			14	3	1	-	
olumbus, Ohio nyton, Ohio ntroit, Mich.	325	180	93	24	17		Pueblo, Colo.	20		8			
olumbus, Ohio nyton, Ohio ntroit, Mich. ansville, Ind.	325 38	30	6	-	1	2	Salt Lake City, Utah	47	2'5		7	6	
olumbus, Ohio nyton, Ohio ntroit, Mich. ansville, Ind. ort Wayne, Ind.	325	30 45		-	1 2					23	2	6 5	
olumbus, Ohio nyton, Ohio ntroit, Mich. nansville, Ind. nrt Wayne, Ind. nry, Ind.	325 38 68 21	30	6	-	1 2	1 -	Salt Lake City, Utah	47	2'5				
olumbus, Ohio nyton, Ohio nyton, Mich nansville, Ind. nyt Wayne, Ind. ny, Ind. nand Rapids, Mich	325 38 68 21	30 45 9 47	16	-	1 2 3 5	2	Salt Lake City, Utah Tucson, Ariz.	47 99	25 67	23	2	5	
olumbus, Ohio ayton, Ohio aytoit, Mich. ansville, Ind. art Wayne, Ind. ary, Ind. and Rapids, Mich	325 38 68 21	30 45 9 47	6 16 5	- 4 2	1 2 3	1 -	Salt Lake City, Utah	47 99	25 67				
olumbus, Ohio nyton, Ohio ntroit, Mich. ansville, Ind. ort Wayne, Ind. nry, Ind. and Rapids, Mich dianapolis, Ind.	325 38 68 21 . 76	30 45 9	6 16 5 19	- 4 2 1	1 2 3 5 7	2 1 - 11	Salt Lake City, Utah Tucson, Ariz.	47 99	2'5	23	2	72	
olumbus, Ohio oryton, Ohio ortroit, Mich. ansville, Ind. ort Wayne, Ind. ort, Ind. ort, Ind. ort, Ind. ort, Ind. ort, Ind. ort, Ind. orthographis, Mich dianapolis, Ind. orthographis. Ind. orthographis. Iwaukee, Wis.	325 38 68 21 . 76 142	30 45 9 47 78	6 16 5 19 48	- 4 2 1 3	1 2 3 5 7 1	1 1 11 3	Salt Lake City, Utah Tucson, Ariz. PACIFIC	47 99 2, 149	25 67 1,364	511	136	72 - 5	
lumbus, Ohio ryton, Ohio rtroit, Mich. ansville, Ind. rt Wayne, Ind. rry, Ind. and Rapids, Mich dianapolis, Ind. udison, Wis. lwaukee, Wis.	325 38 68 21 . 76 142 39	30 45 9 47 78 26	6 16 5 19 48	- 4 2 1 3 1 5	1 2 3 5 7 1 6	2 1 - 11 3 7	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif.	47 99 2, 149 22	25 67 1,364 16	511 5	2 136 I	72	
olumbus, Ohio hyton, Ohio hroit, Mich. ansville, Ind. hrt Wayne, Ind. hry, Ind. and Rapids, Mich dianapolis, Ind. sdison, Wis. lwaukee, Wis. orie, Ill.	325 38 68 21 . 76 142 39 182	30 45 9 47 78 26 122	6 16 5 19 48 9	- 4 2 1 3	1 2 3 5 7 1 6	2 1 - 11 3 7	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif.	47 99 2, 149 22 68	25 67 1,364 16 40	511 5 15	2 136 I 6	72 - 5 1	
llumbus, Chio nyton, Chio troit, Mich. ansville, Ind. rry, Ind. rry, Ind. and Rapids, Mich dianapolis, Ind. Idison, Wis. lwaukee, Wis. oria, III.	325 38 68 21 76 142 39 182 48 40	30 45 9 47 78 26 122 32 30	6 16 5 19 48 9 43 9	- 4 2 1 3 1 5 2	1 2 3 5 7 1 6 2	2 1 - 11 3 7 3 9	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii	47 99 2, 149 22 68 42	25 67 1,364 16 40 27 43	511 5 15 12	2 136 1 6	72 - 5 1	
ilumbus, Ohio yyton, Ohio troit, Mich. ansville, Ind. rt Wayne, Ind. rry, Ind. and Rapids, Mich dianapolis, Ind. dison, Wis. lwaukee, Wis. oria, III. uth Bend, Ind. uth Bend, Ind.	325 38 68 21 76 142 39 182 48	30 45 9 47 78 26 122 32 30 42	6 16 5 19 48 9 43 9	- 4 2 1 3 1 5	1 2 3 5 7 1 6	2 1 - 11 3 7 3 9 1 6	Sait Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif.	47 99 2, 149 22 68 42 60	25 67 1,364 16 40 27 43 63	511 5 15 12 10 18	136 l 6 1 5	72 - 5 1	
ilumbus, Ohio yyton, Ohio troit, Mich. ansville, Ind. try, Ind. and Rapids, Mich dianapolis, Ind. dianapolis, Ind. dison, Wis. lwaukee, Wis. oria, Ill. bekford, Ill. uth Bend, Ind. ledo, Ohio	325 38 68 21 76 142 39 182 48 40 60	30 45 9 47 78 26 122 32 30 42 79	6 16 5 19 48 9 43 9 4 13	- 4 2 1 3 1 5 2 4 1	1 2 3 5 7 1 6 2 1 3	2 1 - 11 3 7 3 9 1 6	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif.	47 99 2, 149 22 68 42 60 89 745	25 67 1,364 16 40 27 43 63	511 5 15 12 10 18 188	2 136 1 6 1 5 6	72 - 5 1	
nlumbus, Ohio nyton, Ohio hyton, Ohio htroit, Mich. ansville, Ind. ort Wayne, Ind. ort, Ind. ohio hidanapolis, Ind. odianapolis, Ind. odianapolis, Ind. over the wistonia, Ill. ockford, Ill. ockford, Ill. oth Bend, Ind. leldo, Ohio	325 38 68 21 76 142 39 182 48 40 60	30 45 9 47 78 26 122 32 30 42	6 16 5 19 48 9 43 9	- 4 2 1 3 1 5 2 4	1 2 3 5 7 1 6 2	2 1 - 11 3 7 3 9 1 6	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendele, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif.	2, 149 22 68 42 60 89	25 67 1,364 16 40 27 43 63	511 5 15 12 10 18	136 l 6 1 5	5 72 5 1 1 18	
ilumbus, Ohio yyton, Ohio troit, Mich. ansville, Ind. try, Ind. and Rapids, Mich dianapolis, Ind. dianapolis, Ind. dison, Wis. lwaukee, Wis. oria, Ill. bekford, Ill. uth Bend, Ind. ledo, Ohio	325 38 68 21 76 142 39 182 48 40 60	30 45 9 47 78 26 122 32 30 42 79	6 16 5 19 48 9 43 9 4 13	- 4 2 1 3 1 5 2 4 1	1 2 3 5 7 1 6 2 1 3	2 1 - 11 3 7 3 9 1 6	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Honolulu, Hawaii Long Basch, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif.	2, 149 22 68 42 60 89 745 125	25 67 1,364 16 40 27 43 63 462 77	511 5 15 12 10 18 188 32 4	2 136 1 6 1 5 6 54 6	72 5 1 1 18 4	
olumbus, Ohio ytron, Ohio ytroit, Mich. ansville, Ind. rtr Wayne, Ind. ry, Ind. and Rapids, Mich. dianapolis, Ind. dison, Wis. livaukee, Wis. oria, Ill. oth Band, Ind. aledo, Ohio ungstown, Ohio	325 38 68 21 76 142 39 182 48 40 60 103 64	30 45 9 47 78 26 122 32 30 42 79 44	6 16 5 19 48 9 43 9 4 13 17	- 4 2 1 3 1 5 2 4 1 4 2	1 2 3 5 7 1 6 2 1 3 -	2 1 - 11 3 7 3 9 1 6 1 3	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oskland, Calif. Pasadena, Calif. Pasadena, Calif. Portland, Oreg.	2, 149 22 68 42 60 89 745 125 43 137	25 67 1,364 16 40 27 43 63 462 77 39 84	511 5 15 12 10 18 188 32 4	2 136 1 6 1 5 6 54 6	5 72 - 5 1 - 1 18 4 -	
nlumbus, Ohio nytron, Ohio ntroit, Mich. ansville, Ind. rt Wayne, Ind. nd, Ind. and Rapids, Mich dianapolis, Ind. dison, Wis. lwaukee, Wis. orie, III. uth Bend, Ind. ledo, Ohio nungstown, Ohio N. CENTRAL	325 38 68 21 76 142 39 182 48 40 60 103 64	30 45 9 47 78 26 122 30 42 79 44	6 16 5 19 48 9 43 9 4 13 17 16	- 4 2 1 3 1 5 2 4 1 4 2	1 2 3 5 7 1 6 2 1 3	2 1 1 3 7 3 9 1 6 1 3	Salt Lake City, Utah Tucson, Ariz. PACIFIC Barkelay, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Basch, Calif. Los Angeles, Calif. Pasadena, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	2, 149 22 68 42 60 89 745 125 43 137 85	2'5 67 1,364 16 40 27 43 63 462 77 39 84	511 5 15 12 10 18 188 32 4 33 19	2 136 1 6 1 5 6 54 6	72 	
olumbus, Ohio ytron, Ohio ytron, Ohio otroit, Mich. ansville, Ind. rtt Wayne, Ind. rry, Ind. and Rapids, Mich dianapolis, Ind. idison, Wis. lwaukee, Wis. oria, Ill. uth Band, Ind. ledo, Ohio bungstown, Ohio N. CENTRAL is Moines, Iowa	325 38 68 21 76 142 39 182 48 40 60 103 64	30 45 9 47 78 26 122 30 42 79 44	6 16 5 19 48 9 43 9 4 13 17 16	-4213155241142	1 2 3 5 7 1 6 2 1 3 - 1	2 1 1 3 7 3 9 1 6 1 3	Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. San Diego, Calif. San Diego, Calif.	2, 149 22 68 42 60 89 745 125 43 137 85	25 67 1,364 16 40 27 43 462 77 39 84 52 83	511 5 15 12 10 18 188 32 4 33 19	2 136 1 6 1 5 6 54 6 - 9 4	72 - 5 1 18 4 - 6 7	
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^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

^{**}Pneumonia and influenza

The cause of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Vibrio cholerae — Continued

Editorial Note: The species *V. cholerae* now includes not only the strains that cause cholera epidemics (*V. cholerae* 0 group 1) but also organisms that are similar biochemically and by DNA homology to the epidemic strains but which have not been associated with epidemic disease (*V. cholerae* of other 0 groups, or non-01 *V. cholerae*). The latter were formerly referred to as non-agglutinating vibrios (NAGs) or non-cholera vibrios (NCVs).

Sporadic cases of disease associated with isolation of non-01 *V. cholerae* do occur in the United States (1). Although some such cases have been anecdotally associated with eating raw shellfish, in this instance raw oysters were epidemiologically incriminated. In the first 2 cases reported here, the incriminated oysters came from areas with elevated fecal coliform counts, suggesting that there was fecal contamination of the areas. Consumption of raw shellfish from contaminated waters carries a significant risk to health. Other diseases, including hepatitis and viral gastroenteritis, have occurred after consumption of contaminated shellfish (2). In Florida and other states, regulatory authorities monitor, under the National Shellfish Sanitation Program, the fecal coliform counts of oyster beds harvested for commercial distribution. At the federal level, this program is administered by the U.S. Food and Drug Administration.

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Current Trends

Hospital Inpatient-Education Survey, 1978 — Preliminary Report

The number of hospitals with operational inpatient-education programs and a coordinating department (one designated to coordinate patient-education activities) increased from 1,218 in 1975 to 2,009 in 1978, according to a recently completed survey. This is a 64.9% increase. An additional 296 hospitals in 1978 reported that they had coordinating departments but that their programs were still in the planning stages.

The survey is the second in a series conducted by the American Hospital Association's Center for Health Promotion in cooperation with CDC's Bureau of Health Education.* It was mailed in November 1978 to 5,815 U.S. non-federal, short-term, general or specialty hospitals; 4,678 hospitals (80.4%) responded.†

Of the respondents, 72.5% (3,393 hospitals) have or are in the process of planning patient-education programs. Of these, 504 or 14.9% indicated that they use closed-circuit television for patient education; 942 or 27.8% are planning to use it.

The number of hospitals listing adult operational programs increased overall by 240 (9.1%), from 2,643 in 1975 to 2,883 in 1978. The most frequently reported adult operational programs for 1978 were diabetes, heart attack, and prenatal care (Table 2). The adult programs increased in 6 areas: diabetes, hypertension, heart attack, open heart surgery, prenatal care, and preoperative care. The largest absolute decreases in adult programs occurred in the areas of nutrition, mastectomy, stroke, exercise, and respiratory care.

The final report will be available from the Bureau of Health Education, CDC, and the American Hospital Association in January 1980.

The first survey, conducted in 1975 (1), involved 5,770 hospitals, of which 4,669 (80.9%) responded.

Inpatient Education — Continued

The most common types of pediatric operational programs for 1978 were diabetes, preoperative care, and orientation (Table 3). The number of pediatric programs experienced an overall decrease of 181 (13.9%), from 1,302 in 1975 to 1,121 in 1978. The largest decreases in these programs occurred in the areas of nutrition, diabetes, exercise, respiratory care, and postoperative care. Pediatric programs also tended to decrease among hospitals under 300 beds (Table 4).

The reasons for this decline in a wide variety of specific programs, when other indicators of patient-education activities have increased, are difficult to identify. In an attempt to determine these reasons, a small sample of hospitals—ones that had responded to both surveys and that had listed in 1975 specific operational programs that were not operation-

TABLE 2. Ten most frequently reported adult education programs in 1978 and number of same programs in 1975

Type of program	Number of ho	spitals reporting
	197 8	1975
Diabetes	2,263	2,097
Heart attack	1,581	1,263
Prenatal care	1,483	1,426
Preoperative care	1,190	1,186
Ostomy	1,136	1,337
Postnatal care	1,079	1,200
Nutrition	886	1,453
Mastectomy	728	1,275
Pacemaker §	715	794
Postoperative care	692	894

§ Not in first 10 in 1975.

TABLE 3. Five most frequently reported pediatric inpatient-education programs in 19⁷⁸ and number of these programs in 1975

Type of program	Number of hospitals reporting				
	1978	1975			
Diabetes	779	960			
Preoperative care	416	484			
Orientation	389	485			
Nutrition	241	537			
Postoperative care	214	348			

TABLE 4. Changes in numbers of hospitals reporting adult and pediatric operational programs, by bed size, 1975-1978

Bed-size category	Change in number of reported adult programs	Change in number of reported pediatric programs
<25	-2	
25-49	+26	-30
50-99	+16	-48
100-199	+51	-80
200-299	+58	-26
300-399	+33	-2
400-499	+33	+7
≥500	+25	S PV In terrolities -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1

Inpatient Education - Continued

al in 1978—were called. Most apparent decreases in programs appeared to be due to misunderstanding of the questionnaire or to the administrative re-designations of programs to other departments which the department completing the questionnaire did not include or consider in its response.

"Nursing inservice education" was the most frequently reported name for the patient-education coordinating department. This was followed by nursing administration (452), education (448), other (229),‡ administration (40), social service (12), personnel (11), and public relations (6).

Reported by the Bur of Health Education, CDC.

References

1. MMWR 26:99, 1977

The Morbidity and Mortality Weekly Report, circulation 92,800, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other Public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

^{‡&}quot;Other" included health education, discharge planning, home care, human resource development, committee, staff development, shared (more than 1 department), and patient care.

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